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A

MUSCLE-N
m MGGQITRNTIHD-----SIGGSFPVPS-----HRCHBKQKHCPTLSG-----

BRAIN-N
m HCNFSSVSSSLQGNPSRASRG---PQNLKE-----SIGGSFPVPS-----HRCHBKQKHCPTLSG----- 55
r HCNFSSVSSSLQGNPSRASRG---PQNLKD-----SIGGSFPVPS-----HRCHBKQKHCPTLSG----- 55
h HCNFSSVSSSLQGNPSRASRG---PQNLKD-----SIGGSFPVPS-----HRCHBKQKHCPTLSG----- 55
d HCLSDIPANYMQGSHPLTLHPQQQHQLQHLQMQQLBNAMPTFAQQAQVLAMESNELLMSTDKLSKKKKLLKKIKKFPGL 90

NLS
m -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
r -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
h -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
d VRRSPSSCPGPNNLPLQFHSVHGDNIRISRDGTLARFESFCRAITFSARPARINERICVPAEISNNNGGIRFGFTSNDEVTLEG 178

NLS1
m -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
r -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
h -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
d VRRSPSSCPGPNNLPLQFHSVHGDNIRISRDGTLARFESFCRAITFSARPARINERICVPAEISNNNGGIRFGFTSNDEVTLEG 178

NLS2
m -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
r -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
h -----GGLPATPLLFHPHTKSCILMDLSHKAVKRQASFCNAITFSNRPLIYEQVRLITKQCCWSGALRLGFTSKDPSRIHPD 136
d VRRSPSSCPGPNNLPLQFHSVHGDNIRISRDGTLARFESFCRAITFSARPARINERICVPAEISNNNGGIRFGFTSNDEVTLEG 178

NHR1
m SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
r SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
h SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
d SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218

LRS1 *
m SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
r SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
h SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218
d SEPKYACPDVVSOSGFNAKALFEFANEENIAFWDKKGRFYRINESAAMLFPSGVRVADPEALVGVGLTRGVQLIDS----- 218

O
m ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
r ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
h ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
d PAALMATVPAQQQMPQPAANASSALNSHHPHQSSRRSLPGHTAIEHDERHVMISLQSLHLGNGCGSVASVEQAIAHDLANGLPL 358

PKB
m ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
r ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
h ELVLPDCLRPSPFTALRRPSLRCEADE-----ARLSVSICDLNVSGADGDDGPPAG--CPIPONSLSNQSRSRALB-A 288
d PAALMATVPAQQQMPQPAANASSALNSHHPHQSSRRSLPGHTAIEHDERHVMISLQSLHLGNGCGSVASVEQAIAHDLANGLPL 358

NHR2
m QLDG-----DLRFHALRACAHVRILDEQTVARLEHGRDERALVFTSRVSVASTIFINVTRSGGGRACALSFQVTTCDPGLTREADLEFS 373
r QLDG-----DLRFHALRACAHVRILDEQTVARLEHGRDERALVFTSRVSVASTIFINVTRSGGGRACALSFQVTTCDPGLTREADLEFS 373
h QLDG-----DLRFHALRACAHVRILDEQTVARLEHGRDERALVFTSRVSVASTIFINVTRSGGGRACALSFQVTTCDPGLTREADLEFS 373
d RYNANGRLIPVFPENT-KGRNVRLSQDRFVASRTESDFCQGYVFFARPIRIGELIVQYLKTEQMYVGALALGLSCNEAMCENDLEND 447

LRS2 *
m PEALVDRKEFPAVCR-VPGPLHSGDILGLVNNADGELHLSHNGAAAGMQLCVDASQILMMLFSLHGAIQVRIIGSTIMTERGGF----- 457
r PEALVDRKEFPAVCR-VPGPLHSGDILGLVNNADGELHLSHNGAAAGMQLCVDASQILMMLFSLHGAIQVRIIGSTIMTERGGF----- 457
h PEALVDRKEFPAVCR-VPGPLHSGDILGLVNNADGELHLSHNGAAAGMQLCVDASQILMMLFSLHGAIQVRIIGSTIMTERGGF----- 457
d SDFLIDRPEYVYVSKDIAAAPQSGEIAFFVAPNGEVSISKNGPQVVMHVDQSLCLWAFLDVYGSTQSLMFRQQLPNNMVAIPSSQPQV 537

SP1
m -----SLPCSPASTPSPSALGIRLSD-----PLSTCCSGPLGGSAGG-----TAPNSPVSPESVTPGLGQWSD----- 519
r -----SLPCSPASTPSPSALGIRLSD-----PLSTCCSGPLGGSAGG-----TAPNSPVSPESVTPGLGQWSD----- 519
h -----SLPCSPASTPSPSALGIRLSD-----PLSTCCSGPLGGSAGG-----TAPNSPVSPESVTPGLGQWSD----- 519
d NVNASSSSACNAASSRMLPMTESHSSLNAGATAKLLHHPSQLSVAQSTSTLASAGGVNGSRMISMESNGDILQIQPENGGTVLVVNLPP 627

O
m -----BCTICYEHAVEVTIVTCG 537
r -----BCTICYEHAVEVTIVTCG 537
h -----BCTICYEHAVEVTIVTCG 537
d ASSSHDINGQLAARPTATVTSSGVLGACSSGTLISTTSSQYIEQPIANSTNNAANKWKDSLSDQSTDSABCTICYENPIESVLMCG 717

SP2
m -----BCTICYEHAVEVTIVTCG 537
r -----BCTICYEHAVEVTIVTCG 537
h -----BCTICYEHAVEVTIVTCG 537
d ASSSHDINGQLAARPTATVTSSGVLGACSSGTLISTTSSQYIEQPIANSTNNAANKWKDSLSDQSTDSABCTICYENPIESVLMCG 717

RZD
m HMCICYSGLRLKKALH-ACCPICRRPKIHKYRSS 574
r HMCICYSGLRLKKALH-ACCPICRRPKIHKYRSS 574
h HMCICYSGLRLKKALH-ACCPICRRPKIHKYRSS 574
d HMCICYSGLRLKKALH-ACCPICRRPKIHKYRSS 574

B

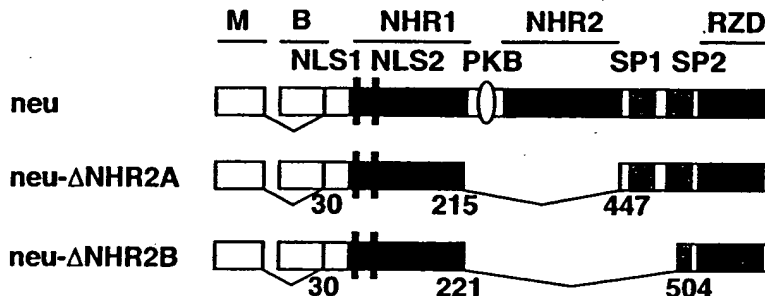


FIGURE 1

BOOK REVIEW

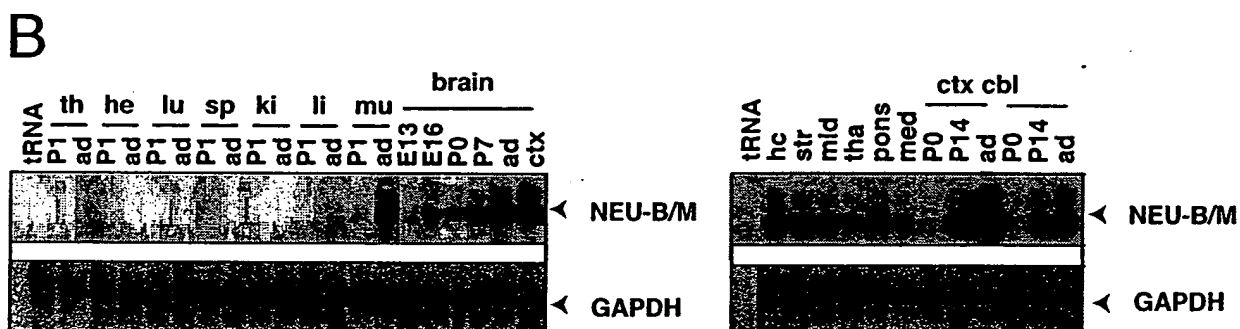
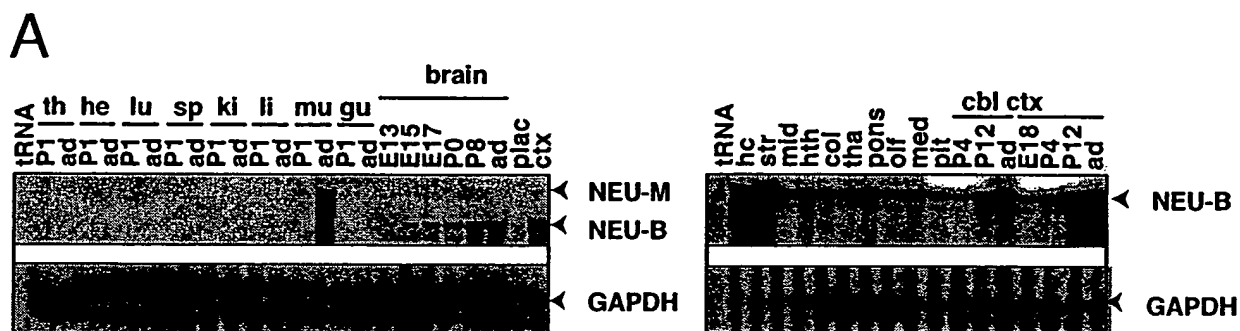


FIGURE 2

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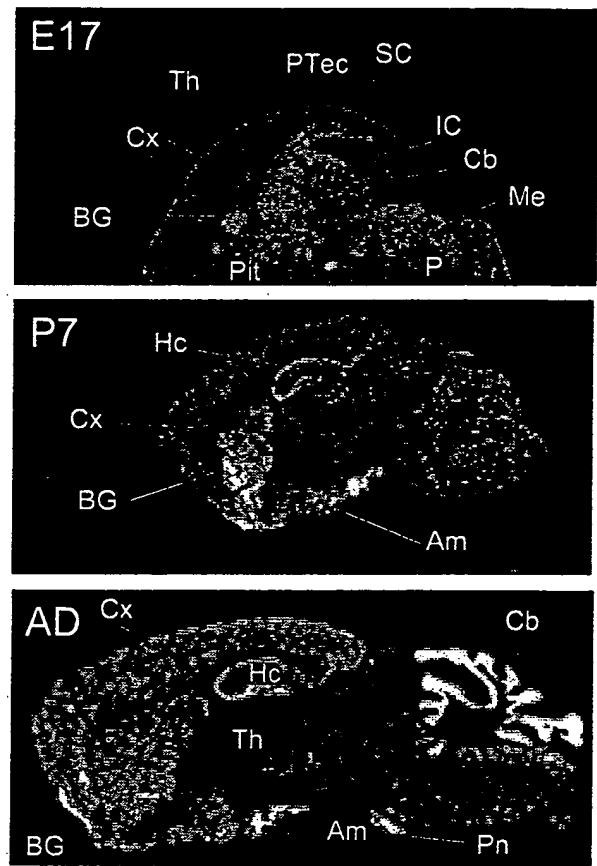


FIGURE 3

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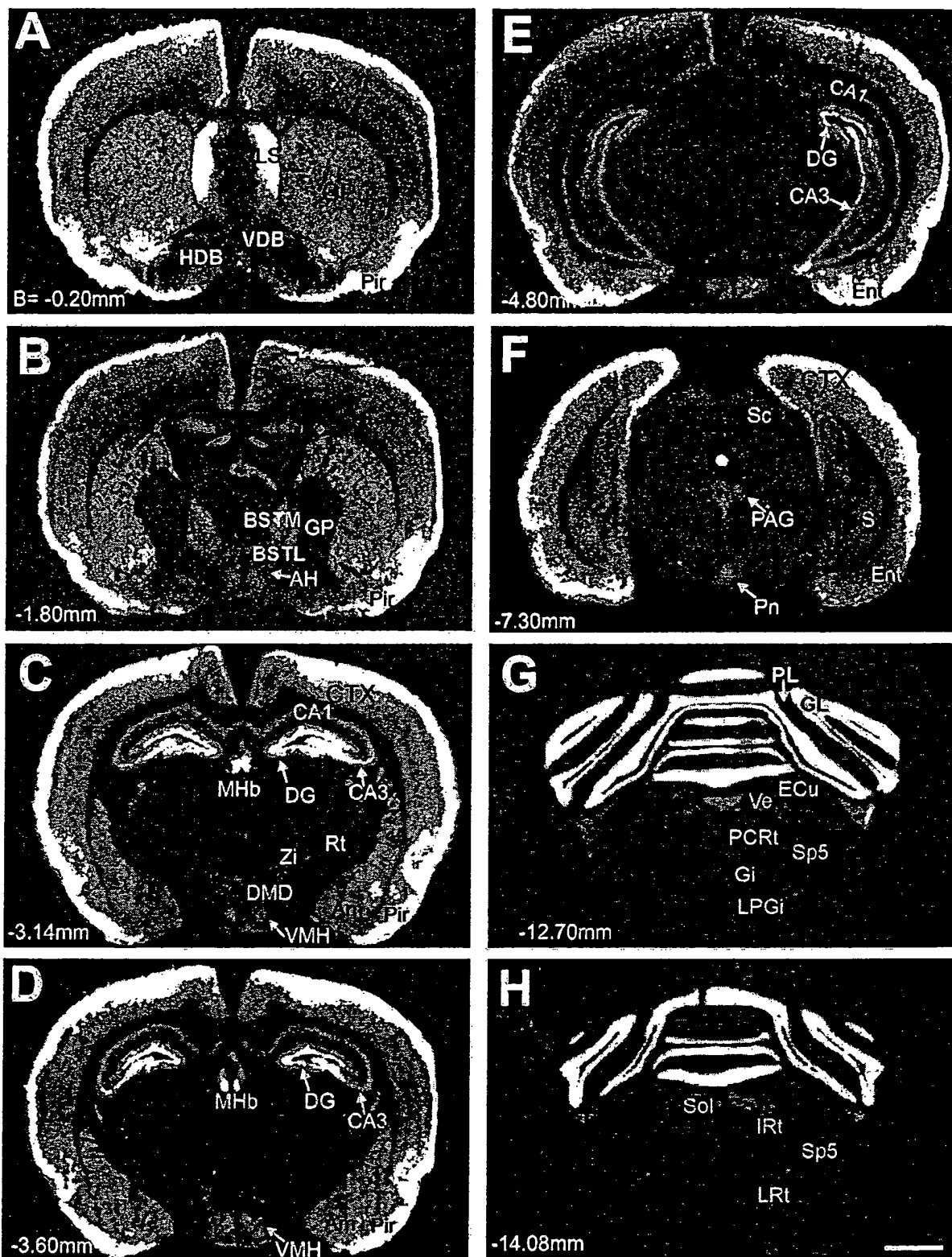


FIGURE 4



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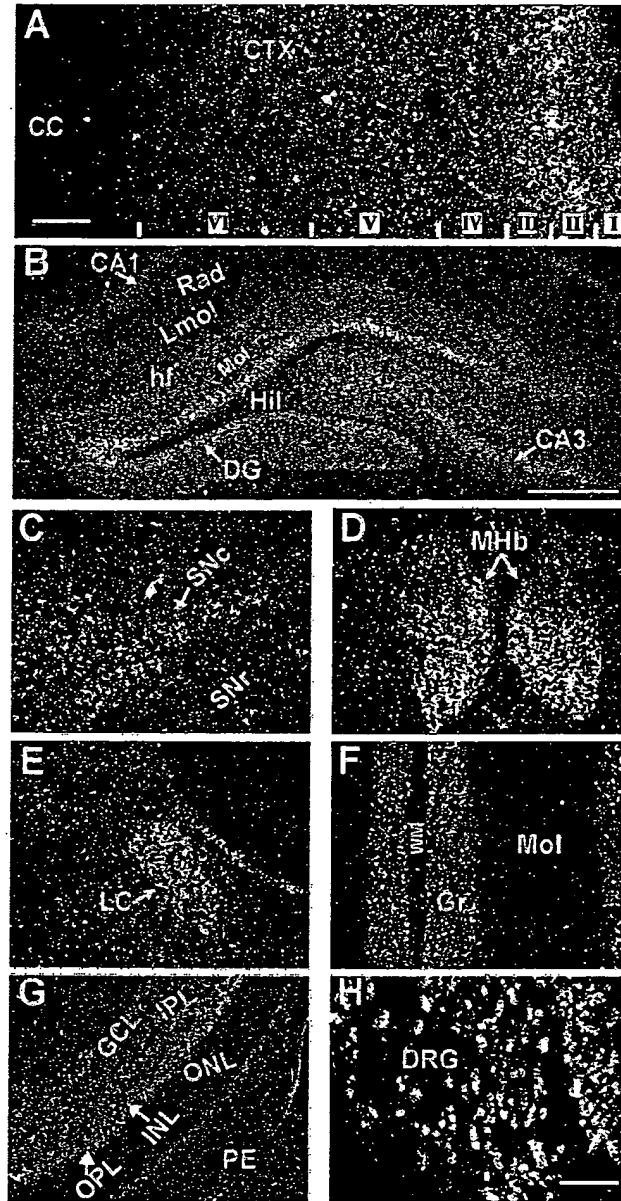


FIGURE 5

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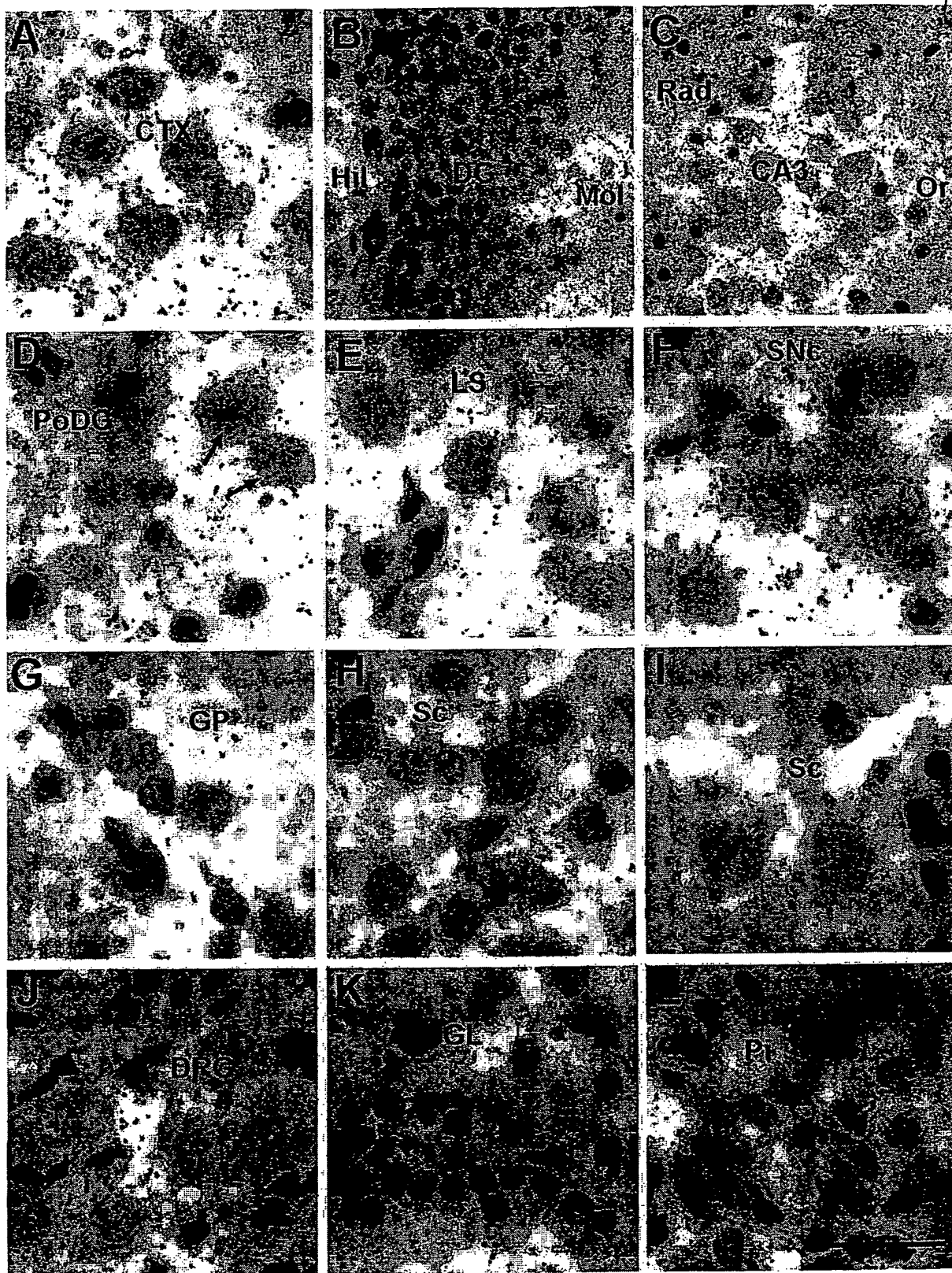


FIGURE 6

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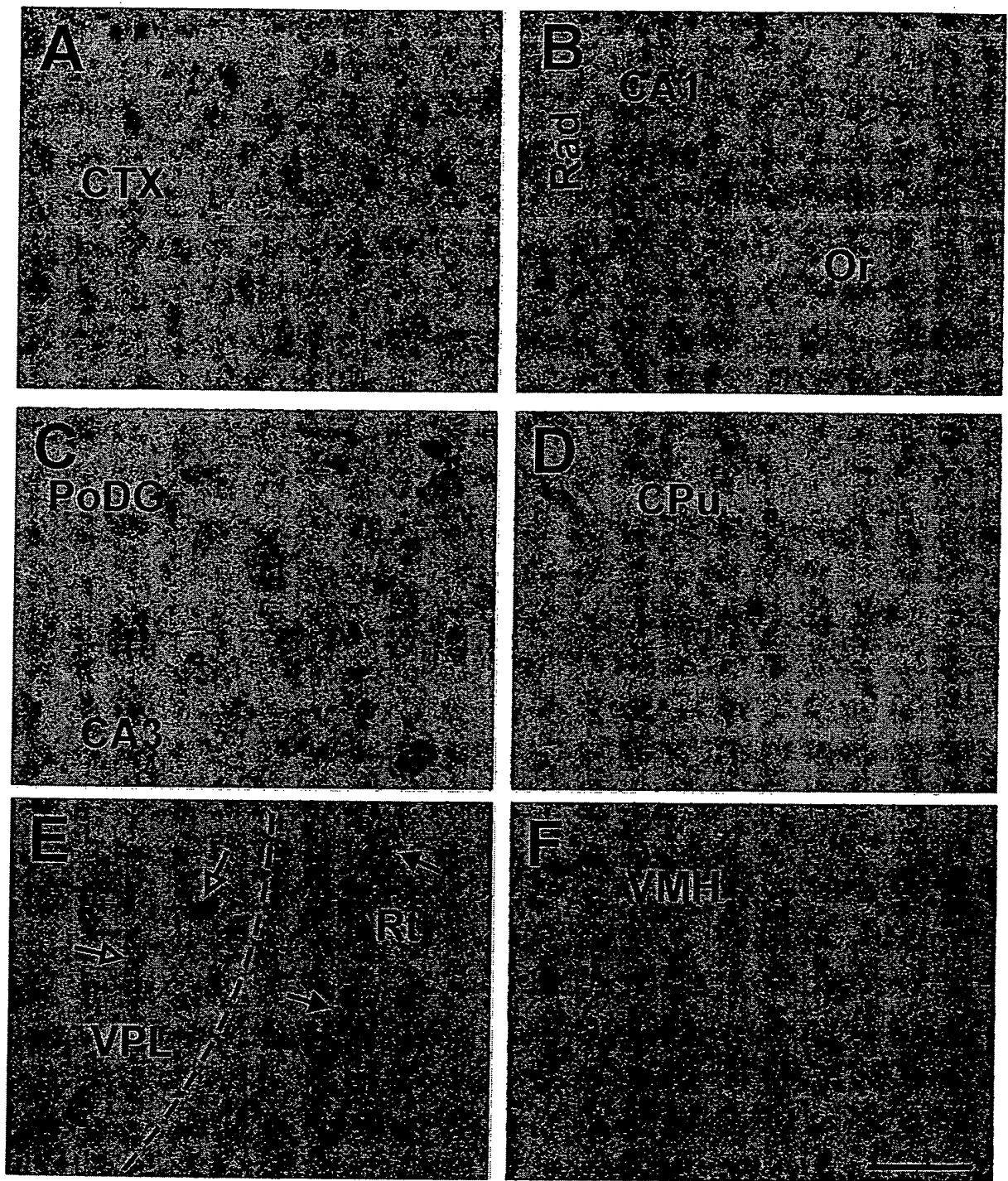


FIGURE 7

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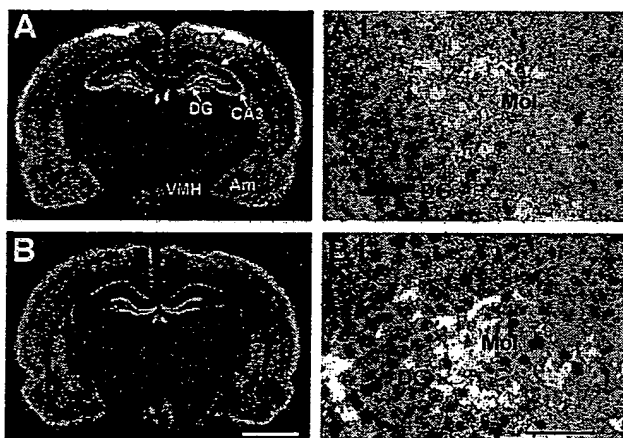


FIGURE 8

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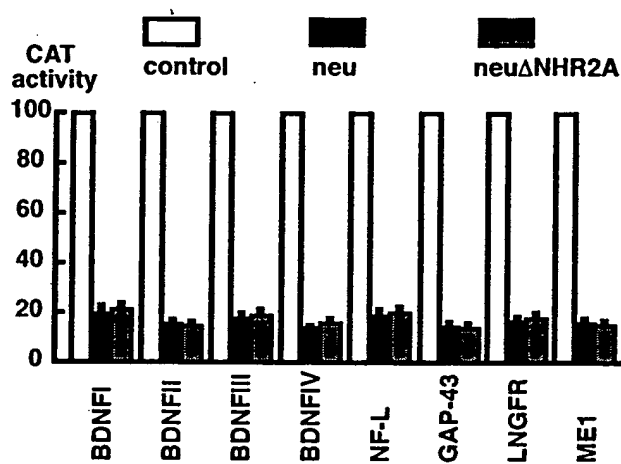


FIGURE 9



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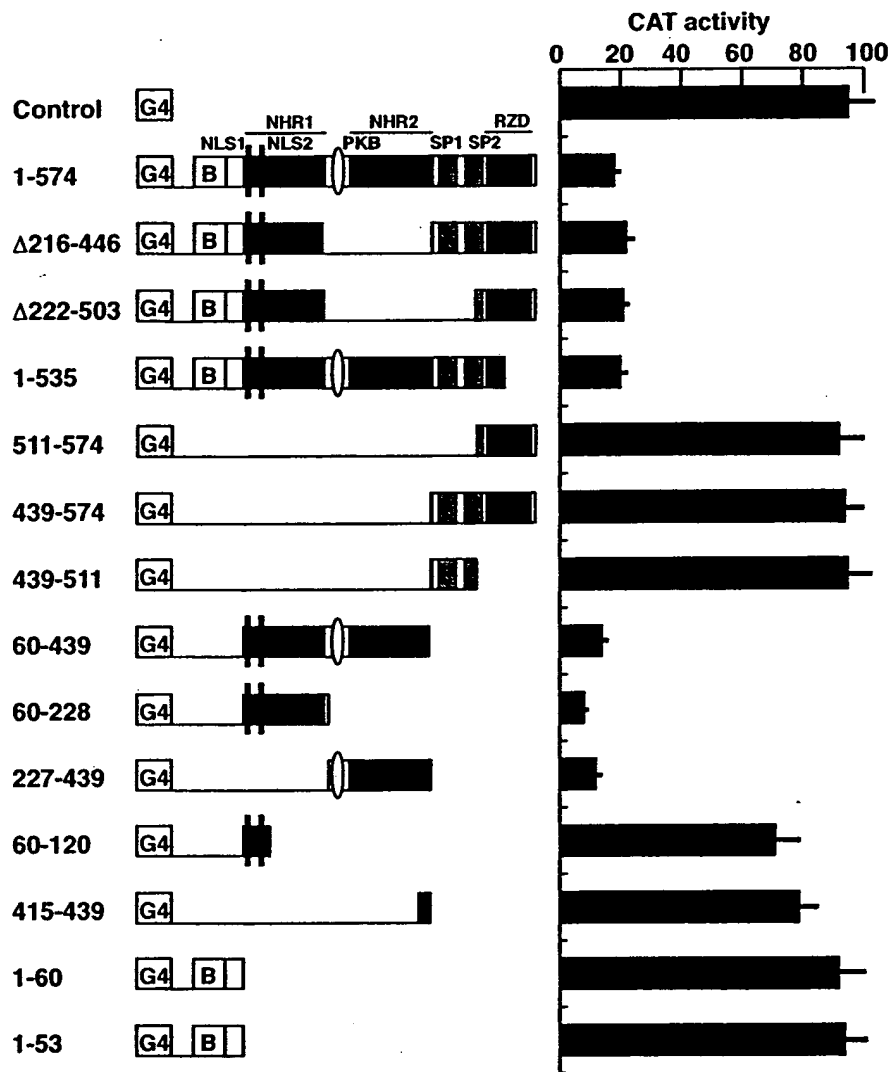


FIGURE 10

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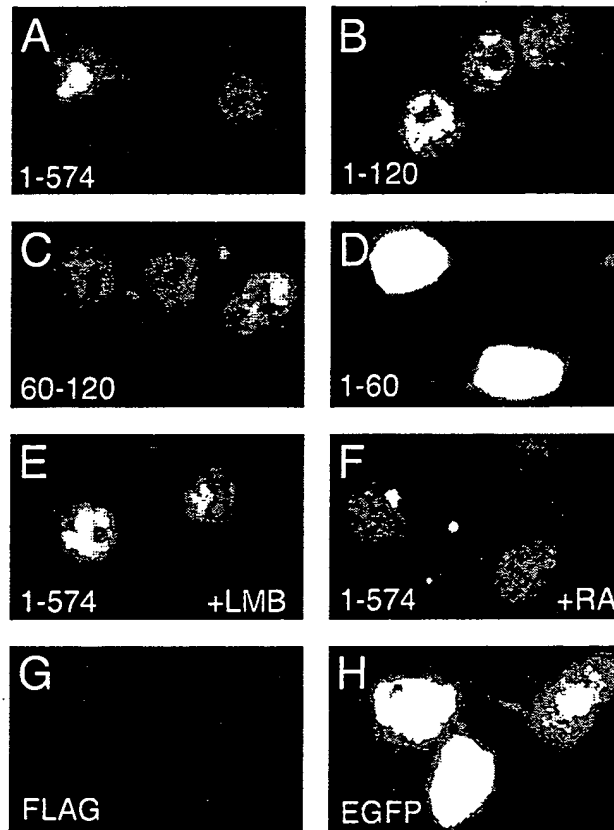


FIGURE 11



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h1I FHPHTKGSRLDLSHKAKR-QASFCNAIFSNRPVLIYEQRRTKKQCCWSGAR
h2I FHAQAKGKTRDGHSSRRTR-RNSFCNGVFQRPRLYEQRVAVRPGWSGAR
h3 FHAQAKGKTRDTRGCIARR-RTTFHDGIFQRPRLGERIAVLRREESGWCGAR
dI FHS-VHGDNERSRDGTIARR-FESFCRAIFQRPRLRINERCAEISNNWNGAR
dII FHNTK-GRTRFSQDRFVSRTESDFCQGYFQRPRLRIGERIKVLRKTEQMYVGAR
h2II FHATR-GPTFSASADRKVCAPRPDGGRTLFSRPRPGESFGRPGPLAAGAR
h1II FHALRAGARRLDEQTVARVEHGRDERALFSRPRVAETEFVTRSGGARFGLS

h1I GHTSKPSRTHPDSLPHYACPDVLSGFWAKAL-PEEFANEENIAFWVDKKGRTHRI
h2I GETAHPSLSAQDIPKYACPDVTRPGYAKAL-PENLALRDTWAYWADRHRGFYSV
h3 GHTRLPACSVPSLPPFLCPDLEESPTAAVAVL-PEGCALTSDFRFVWDRRGCFKV
dI GHTSNPVTLEG-TLPKYACPDLTNRPGFWAKAL-HEQYCEKDNIRYYVNGAGDIIYGI
dII GHTSCNPAMLPQ-NDLPNDSDFLLDRPEYVWVSKDIAAAPQRGDEFAFFVAPNGEVSISK
h2II GHTSCNPGVLRP-NELPADPDALLDRKEYWVVAR-AGPVPSGGDALSTTLRPGDVLGI
h1II GHTTCNPGTLRP-ADLPFSPEALVDRKEFWVCR-VPGPLHSQDGLVNVADGELSH

h1I NDSAVMLFFSGVRTADPLWAVDNYG-LTRGVOLL
h2I NDGEVPLFHCGVAVGGPLWAVDNYG-ITDEVOLL
h3 NAGCRLLLREGVPVGAPLWAVDNYG-TTKATELL
dI NNEEKGVILTGHDTSSLWTVDNYG-NCTGREL
dII NNGPAVVVMHVDQSLQLWAVDNYG-STQSLRME
h2II NGRPRGRLLCVDTTQALWAVAVRGGVAGQRL
h1II NGAAAGMQLCVDASQPLWAVGTHG-TITQIRRL

FIGURE 12

09808387.062201



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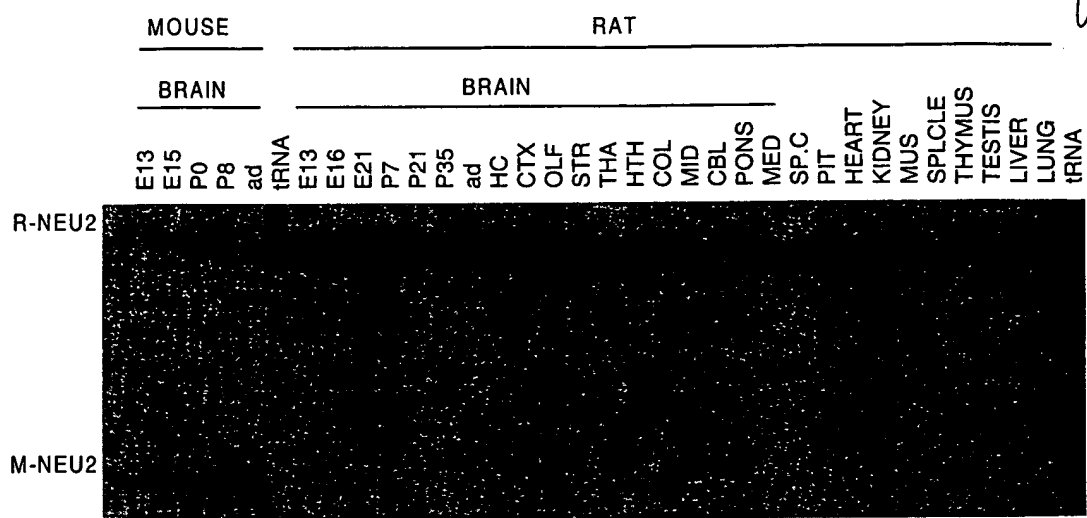


FIGURE 13

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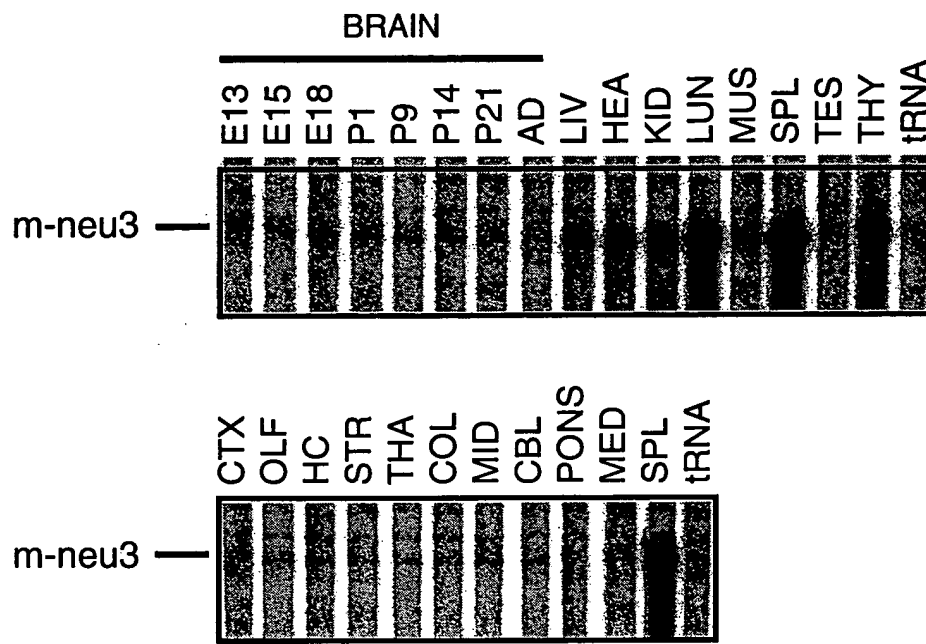


FIGURE 14



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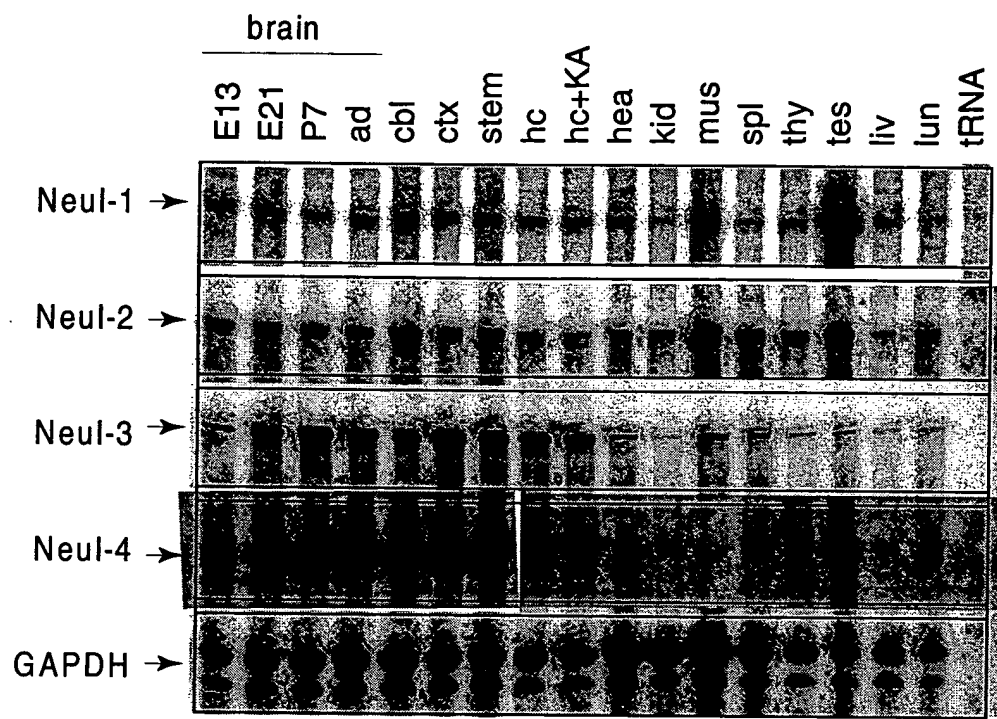


FIGURE 15

